

**What is claimed is:**

1           1.    A keyboard structure, comprising:  
2           a base plate;  
3           a light guide member disposed on the base plate;  
4           a membrane circuit board disposed on the light guide  
5           member;  
6           a key assembly disposed on the membrane circuit  
7           board, with a key cap and a resilient element  
8           between the key cap and the membrane circuit  
9           board; and  
10          a light-emitting element adjacent to the light guide  
11          member and disposed under the membrane circuit  
12          board, whereby light from the light-emitting  
13          element enters the resilient element and key  
14          cap via the light guide member.

1           2.    The keyboard structure as claimed in claim 1,  
2           wherein the resilient element is transparent.

1           3.    The keyboard structure as claimed in claim 1,  
2           wherein the membrane circuit board is transparent.

1           4.    The keyboard structure as claimed in claim 1,  
2           wherein the membrane circuit board further comprises at  
3           least one through hole corresponding to the key cap, the  
4           light in the light guide member enters the key cap via  
5           the through hole.

1           5.    The keyboard structure as claimed in claim 1,  
2           wherein the light guide member further comprises at least

3 one reflective layer formed on the surface thereof to  
4 reflect the light therein.

1 6. The keyboard structure as claimed in claim 5,  
2 wherein the reflective layer is coated on the surface of  
3 the light guide member.

1 7. The keyboard structure as claimed in claim 5,  
2 wherein the reflective layer is attached to the surface  
3 of the light guide member.

1 8. The keyboard structure as claimed in claim 1,  
2 wherein the light guide member further comprises a recess  
3 to receive the light-emitting element.

1 9. The keyboard structure as claimed in claim 1,  
2 wherein the key assembly further comprises a scissors  
3 connection mechanism disposed between the key cap and the  
4 membrane circuit board.

1 10. The keyboard structure as claimed in claim 1,  
2 wherein the light-emitting element is a light-emitting  
3 diode (LED).

1 11. The keyboard structure as claimed in claim 1,  
2 wherein the membrane circuit board provides power to the  
3 light-emitting element.

1 12. The keyboard structure as claimed in claim 11,  
2 wherein the light-emitting element is attached to the  
3 membrane circuit board to acquire power.

1 13. The keyboard structure as claimed in claim 1,  
2 further comprising a circuit board disposed under the

3 base plate to provide power to the light-emitting  
4 element.

1 14. The keyboard structure as claimed in claim 13,  
2 wherein the light-emitting element is attached to the  
3 circuit board to acquire power.

1 15. The keyboard structure as claimed in claim 1,  
2 wherein the keyboard structure is deployed in a computer.

1 16. The keyboard structure as claimed in claim 1,  
2 wherein the keyboard structure is deployed in a cellular  
3 phone.

1 17. The keyboard structure as claimed in claim 1,  
2 wherein the keyboard structure is deployed in a PDA.